

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

Listing of Claims

Claim 1 (Currently amended): An austenitic stainless steel having high stress corrosion crack resistance, ~~characterized by~~ containing, in percent by weight,

0.030% or less C,

0.02% or less Si,

0.85% or less Mn,

0.03% or less P,

0.002% or less S,

11 to 20.1% [[26%]] Ni,

17 to 30% Cr,

1.03 to 3% ~~or less~~ Mo, and

0.003% or less N,

the balance substantially being Fe and unavoidable impurities, and

having stacking fault energy (SFE) calculated by the following equation (1):

$$\text{SFE (mJ/m}^2\text{)} = 25.7 + 6.2 \times \text{Ni} + 410 \times \text{C} - 0.9 \times \text{Cr} - 77 \times \text{N} - 13 \times \text{Si} - 1.2 \times \text{Mn} \dots (1)$$

that is 100 (mJ/m²) or higher.

Claims 2 and 3 (Canceled)

Claim 4 (Currently amended): The austenitic stainless steel having high stress corrosion crack resistance according to ~~any one of claims~~ claim 1 to 3, ~~characterized in that~~ wherein
(Cr equivalent) - (Ni equivalent) is in the range of -5% to +7%.

Claim 5 (Currently amended): The austenitic stainless steel having high stress corrosion crack resistance according to ~~any one of claims~~ claim 1 to 3, ~~characterized in that~~ wherein
Cr equivalent / Ni equivalent is 0.7 to 1.4.

Claim 6 (Canceled)

Claim 7 (Currently amended): A manufacturing method for a stainless steel, ~~characterized in that~~ wherein

a billet consisting of the austenitic stainless steel according to ~~any one of claims~~ claim 1 to 3 is subjected to solution heat treatment at a temperature of 1000 to 1150 degrees C.

Claim 8 (Currently amended): A manufacturing method for a stainless steel, ~~characterized in that~~ wherein

a billet consisting of the austenitic stainless steel according to ~~any one of claims~~ claim 1 to 3 is subjected to solution heat treatment at a temperature of 1000 to 1150 degrees C, thereafter

is subjected to cold working of 10 to 30%, and is then subjected to intergranular carbide precipitation treatment at a temperature of 600 to 800°C for 1 to 50 hours.

Claim 9 (Currently amended): A structure in a nuclear reactor, ~~characterized by being~~ formed of the austenitic stainless steel according to ~~any one of claims~~ claim 1 ~~to 3~~.

Claim 10 (Currently amended): A pipe for a nuclear reactor, ~~characterized by being~~ formed of the austenitic stainless steel according to ~~any one of claims~~ claim 1 ~~to 3~~.

Claim 11 (Currently amended): A structure in a nuclear reactor, ~~characterized by being~~ formed of the stainless steel obtained by the manufacturing method according to claim 7.

Claim 12 (Currently amended): A pipe for a nuclear reactor, ~~characterized by being~~ formed of the stainless steel obtained by the manufacturing method according to claim 7.

Claim 13 (Currently amended): A structure in a nuclear reactor, ~~characterized by being~~ formed of the stainless steel obtained by the manufacturing method according to claim 8.

Claim 14 (Currently amended): A pipe for a nuclear reactor, ~~characterized by being~~ formed of the stainless steel obtained by the manufacturing method according to claim 8.